lication No.	Applicant(s)	$\overline{\omega}$
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6. ☐ Interview Summary Paper No./Mail Dat 7. ☐ Examiner's Amendn	(PTO-413), e nent/Comment ent of Reasons for Allowance	AMAI KAMINEF
	REMAINS) CLOSED in this applier appropriate communication S. This application is subject to MPEP 1308.  So U.S.C. § 119(a)-(d) or (f).  In received.  In received in Application No	Mail E. Karl  2834  In the cover sheet with the correspondence address—REMAINS) CLOSED in this application. If not included her appropriate communication will be mailed in due course. S. This application is subject to withdrawal from issue at the MPEP 1308.  It is U.S.C. § 119(a)-(d) or (f).  In received.  In received in Application No  Ints have been received in this national stage application from this application.  Note the attached EXAMINER'S AMENDMENT or NOTICE ison(s) why the oath or declaration is deficient.  Submitted.  Patent Drawing Review ( PTO-948) attached endment / Comment or in the Office action of a should be written on the drawings in the front (not the back) of ader according to 37 CFR 1.121(d).  BIOLOGICAL MATERIAL must be submitted. Note the THE DEPOSIT OF BIOLOGICAL MATERIAL.  5. Notice of Informal Patent Application (PTO-152)  6. Interview Summary (PTO-413), Paper No./Mail Date  7. Examiner's Amendment/Comment  8. Examiner's Statement of Reasons for Allowance

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## Reasons for Allowance

The following is an examiner's statement of reasons for allowance: the prior art 1. does not teach a DC motor having a permanent magnet stator with circumferentially arranged poles and a rotor with a plurality of coils wound around respective cores and electrically connected to commutator segments which provide current to coils via brushes, where the poles have surfaces opposing to the rotor and the surfaces of two circumferentially adjoining poles have different polarities so that the polarity of the pole surfaces opposing each coil alternate during each period of supply of the current to the coil and each pole defines a reduced magnetic flux density area and an increased magnetic flux density area with the reduced density area extending along an angular range from a first position where the supply of current to the coils is initiated to a second position where the polarities of the pole surfaces alternate and with the increased density area extending along an angular range from the second position to a third position where the supply of the current to the coils is interrupted, and where the magnetic flux density produced around each coil by a magnetic force of each pole when each coil is positioned within at least a part of the angular range of the increased density area is smaller than the magnetic flux density produced around each coil by a magnetic force of each pole when each coil is positioned within at least a part of the angular range of the reduced density area.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl I.E. Tamai whose telephone number is (571) 272 - 2036.

The examiner can be normally contacted on Monday through Friday from 8:00 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Darren Schuberg, can be reached at (571) 272 - 2044. The facsimile number for the Group is (571) 273 - 8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Karl I Tamai PRIMARY PATENT EXAMINER September 13, 2005

KARL TAMAI PRIMARY EXAMINER